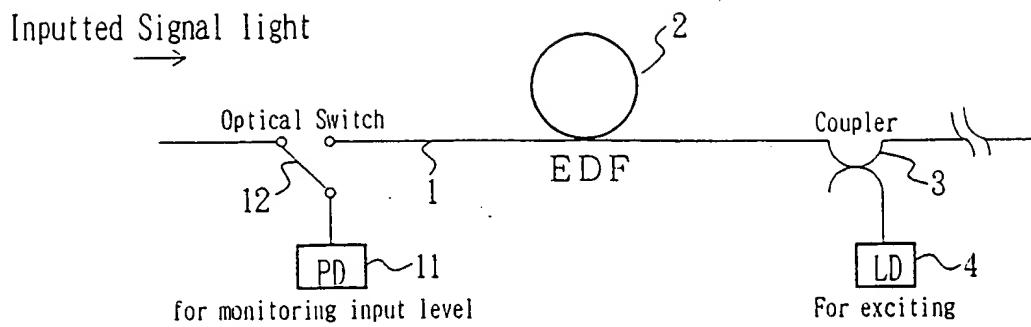
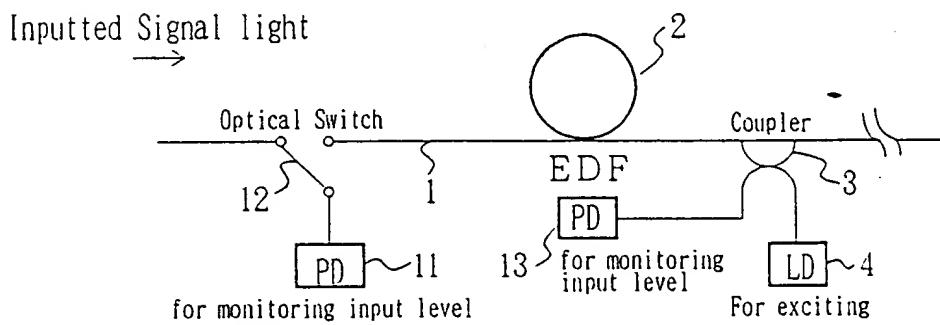


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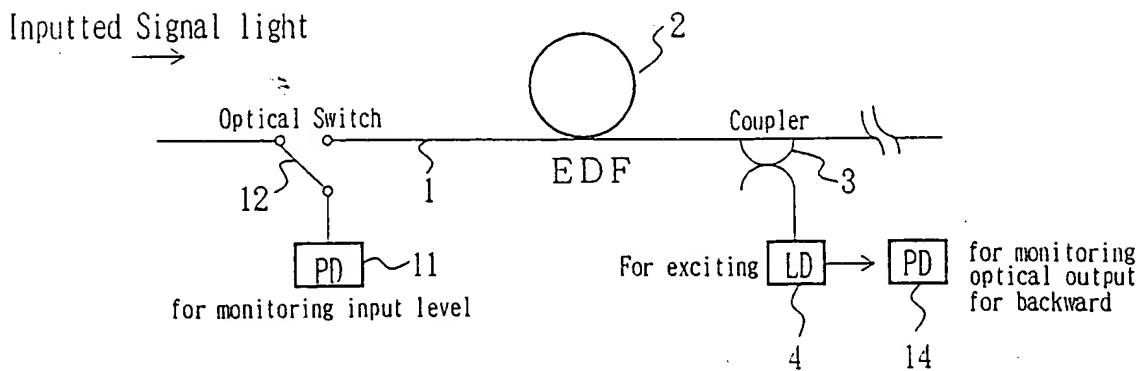
F I G. 1 A



F I G. 1 B

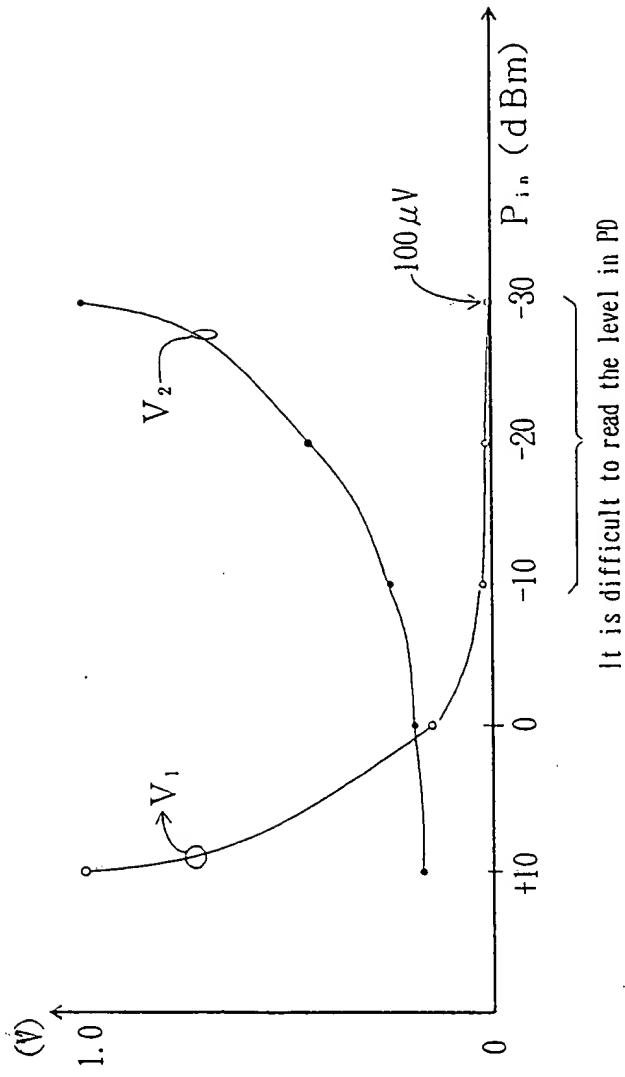


F I G. 1 C



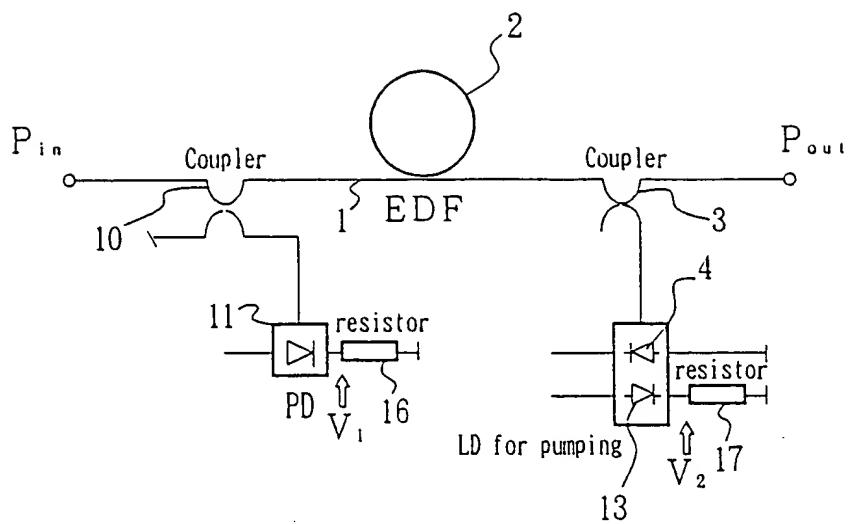
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FIG. 2



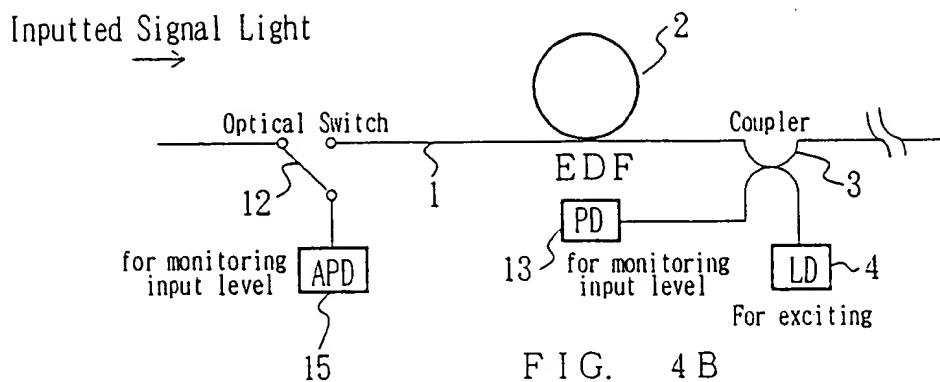
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F I G. 3

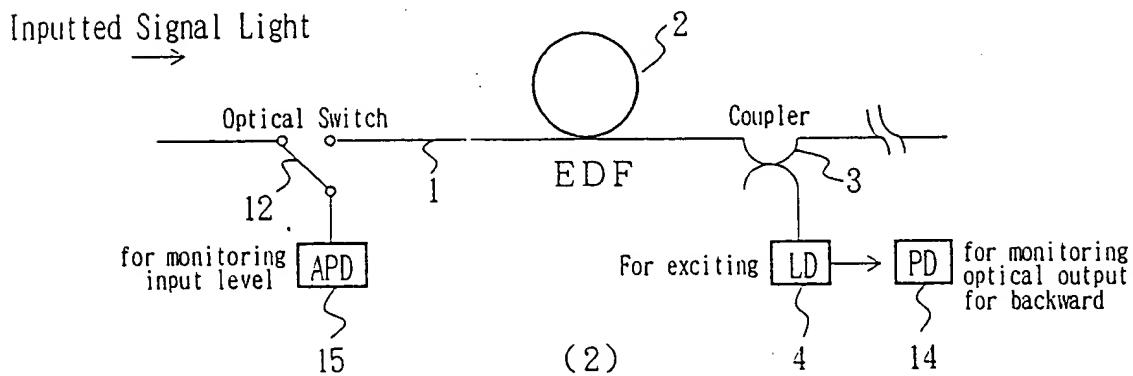


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F I G. 4 A

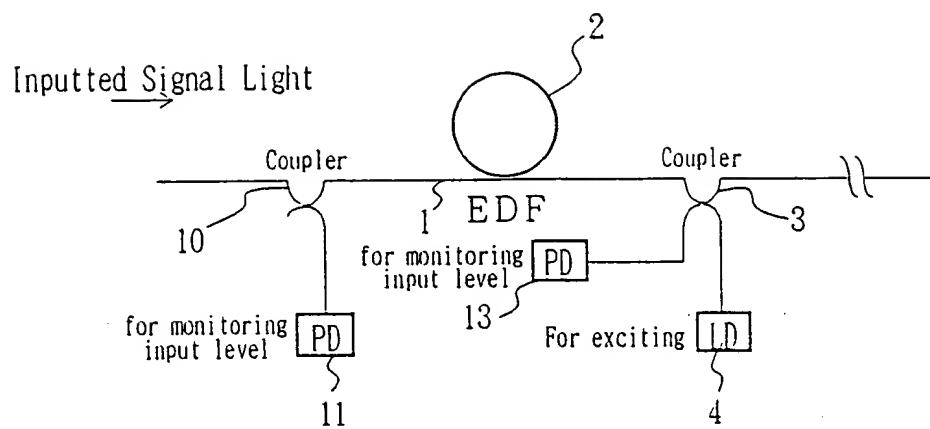


F I G. 4 B

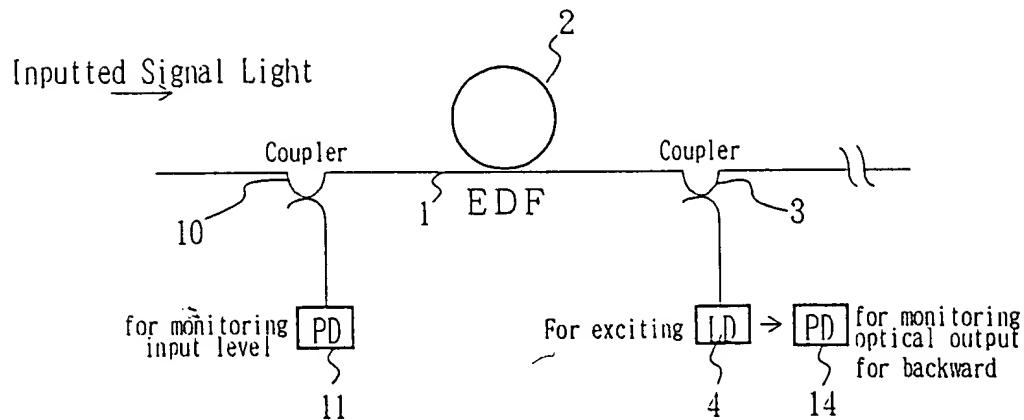


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F I G. 5 A



F I G. 5 B



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FIG. 6 A

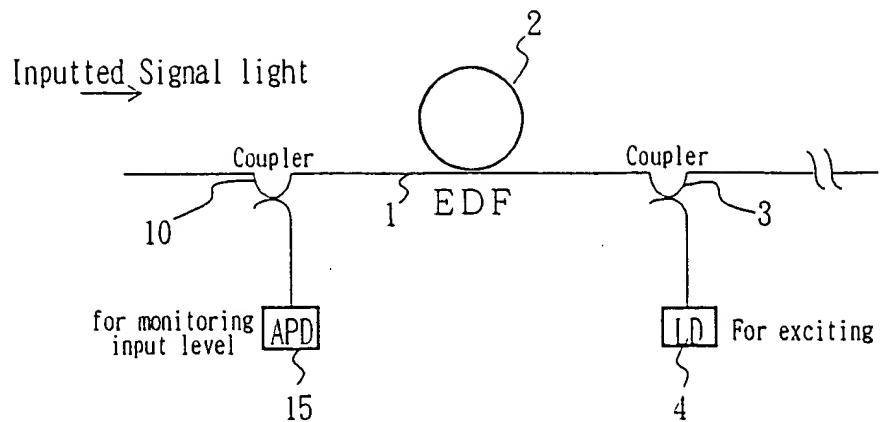


FIG. 6 B

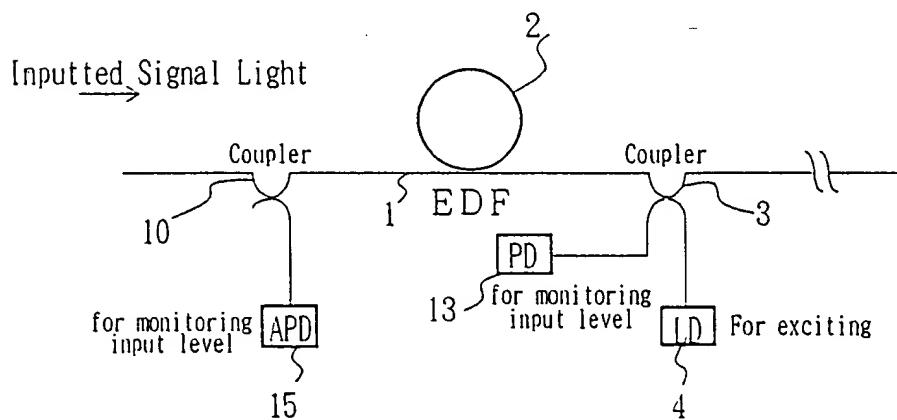
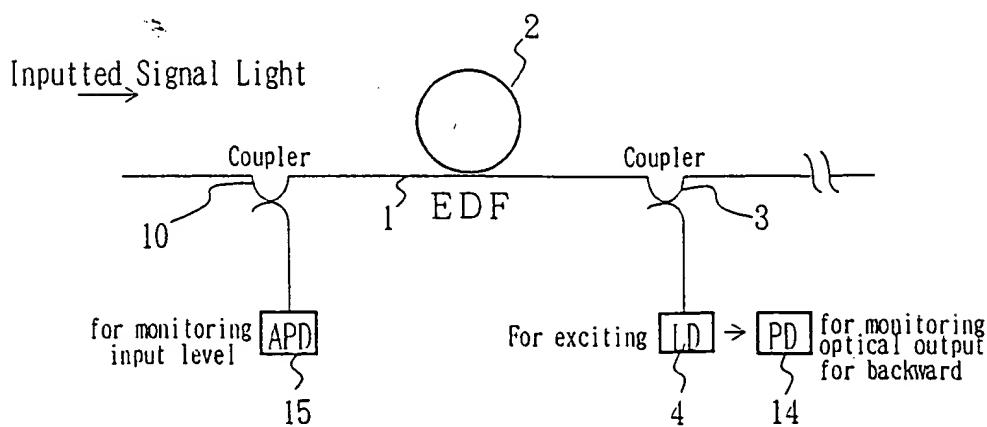
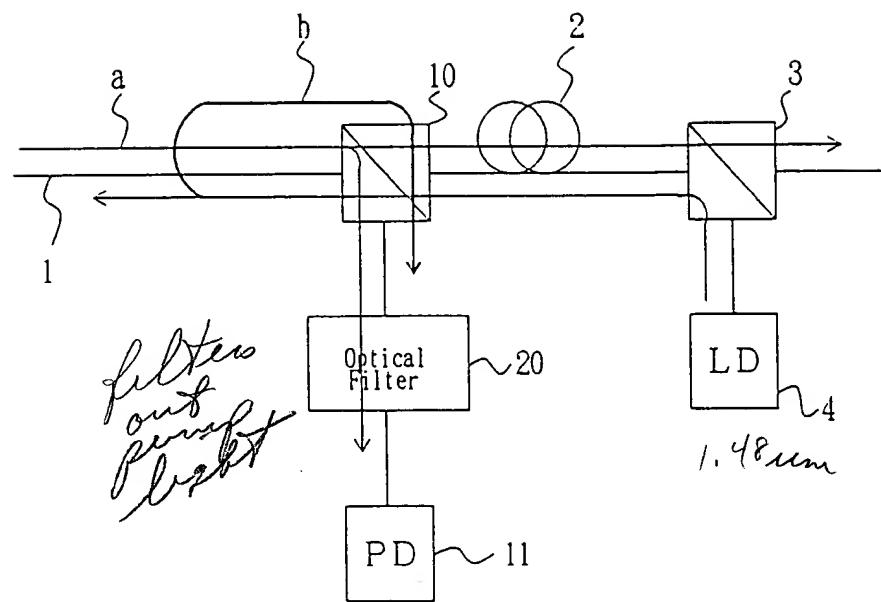


FIG. 6 C



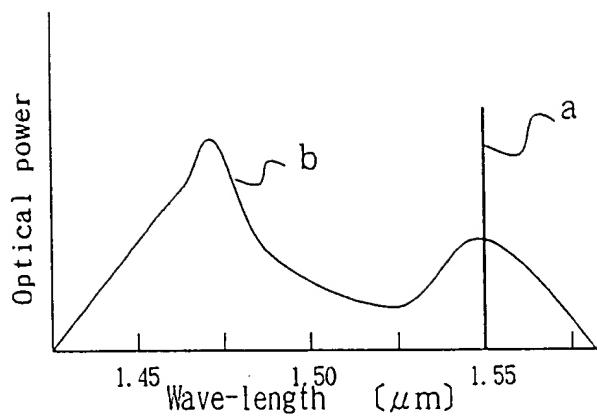
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F I G. 7

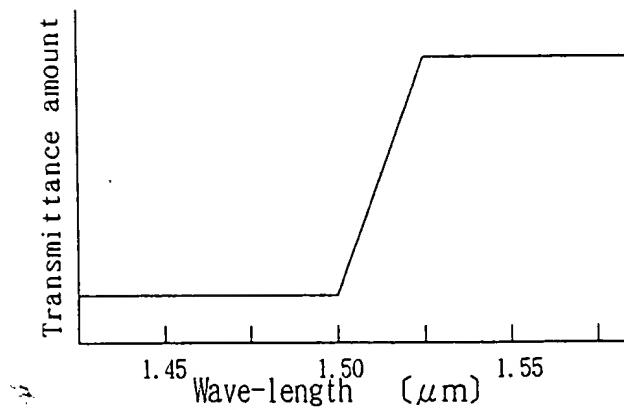


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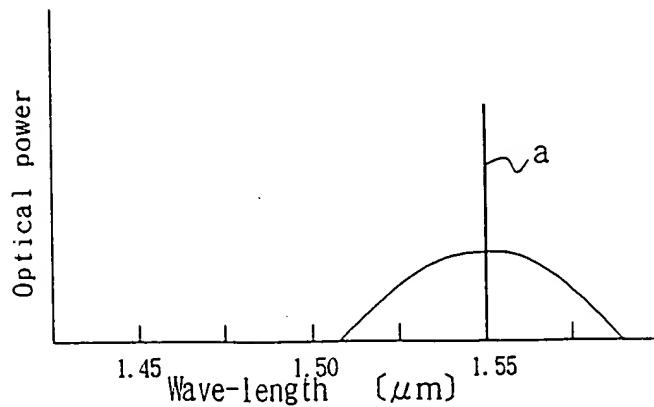
F I G. 8



F I G. 9

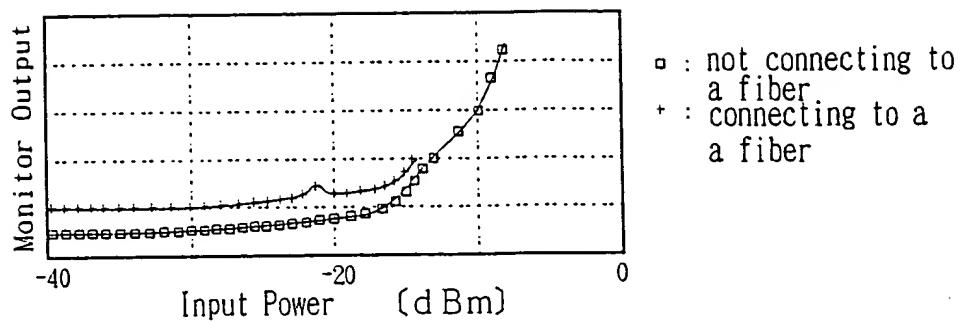


F I G. 10

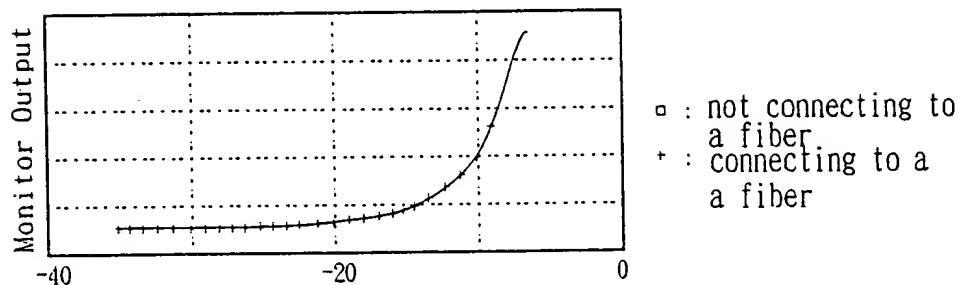


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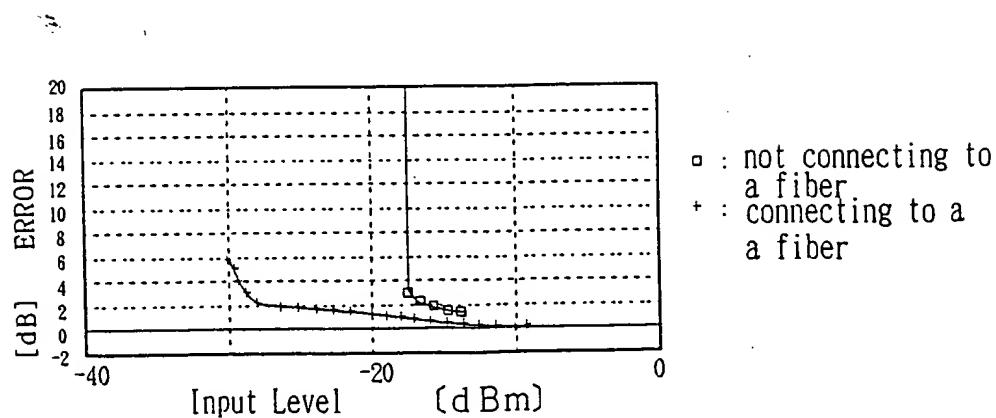
F I G. 1 1



F I G. 1 2

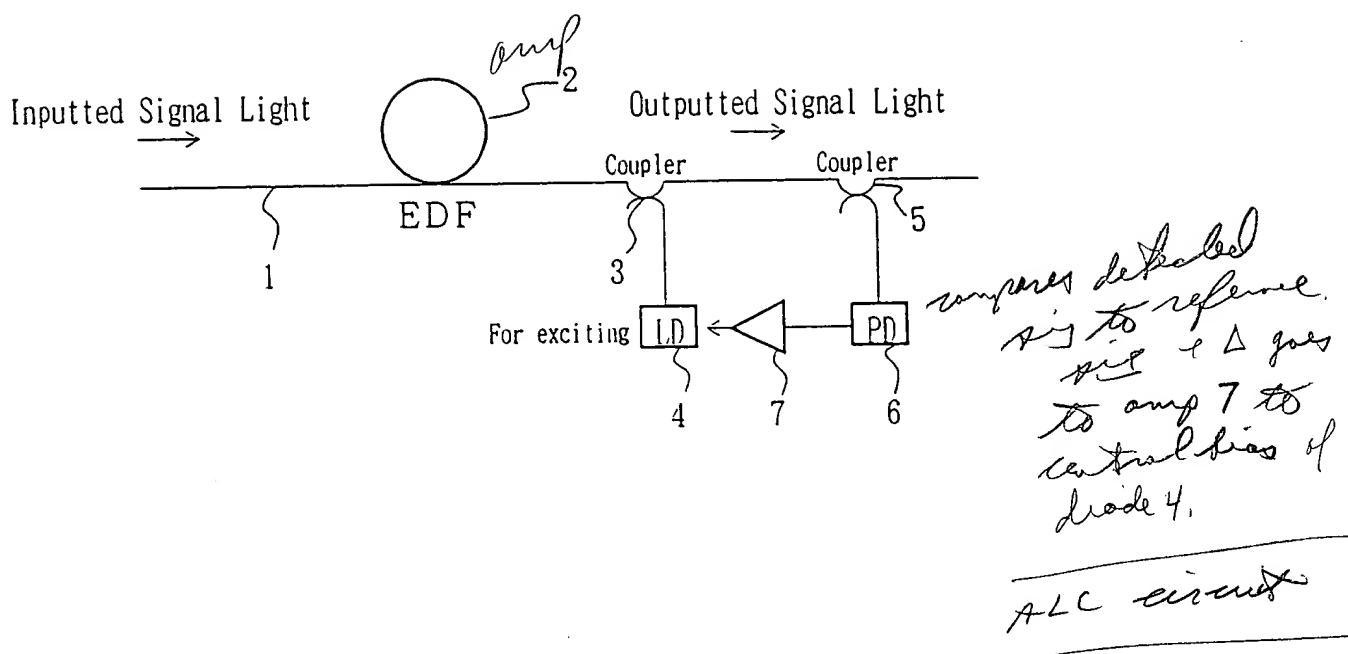


F I G. 1 3



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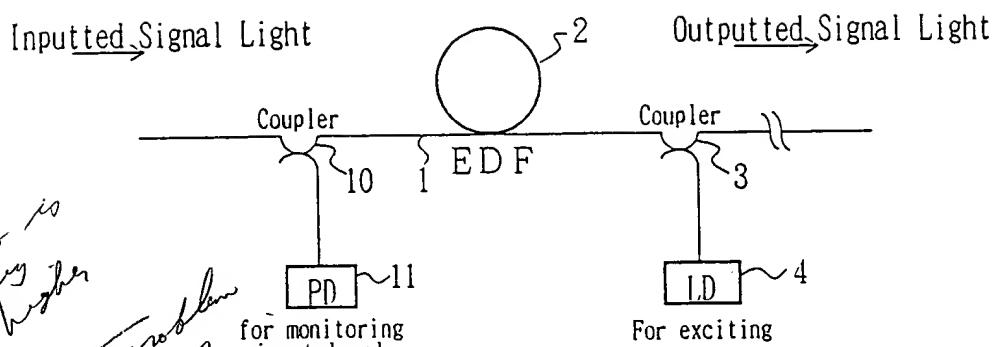
FIG. 14



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FIG. 15

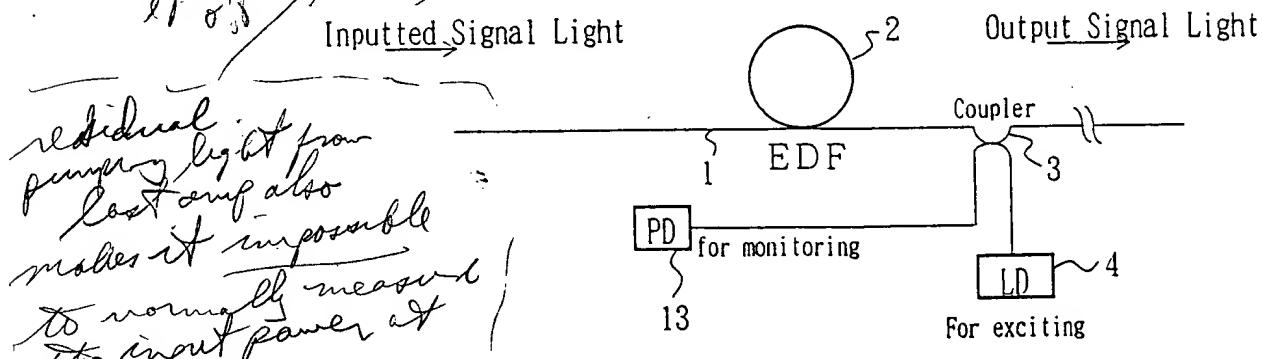
PRIOR ART



power is low  
loss ratio is  
it's high very  
it's too high has higher  
loss and causes problem  
to each other  
ray light each others problem  
it forms each other  
photo diodes can't measure  
the output power.

FIG. 16

PRIOR ART



residual  
pumping light from  
last amp also  
makes it impossible  
to normally measure  
the input power at  
the next amp

for high  
original  
it has  
prob

ALC

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FIG. 17

